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	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
APPLICATION NO.	FILING DATE			5572		
09/808,875	03/15/2001	Christopher J. Edge	10275US01	3372		
75	90 04/25/2003					
- 10			EXAMINER			
Steven J Shumaker						
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St Paul, MN 55125			ART UNIT	PAPER NUMBER		
			2672	6		
			DATE MAILED: 04/25/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application	No.	Applicant(s)				
,		09/808,875		EDGE, CHRISTOPH	IER J.			
	Office Action Summary	Examiner		Art Unit				
		Chante Harr	ison	2672				
	The MAILING DATE of this communica	tion appears on the c	over sheet with the	correspondence addi	ress			
Period fo	r Reply	DEDLY IS SET TO	EXPIRE 3 MONTH	(S) FROM	:			
THE I - Exter after - If the - If NC - Failu - Any eam	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA assions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) of the provision of the prov	ATTON. 7 CFR 1.136(a). In no event cation. lays, a reply within the statuto ory period will apply and will a	, however, may a reply be ti ry minimum of thirty (30) da expire SIX (6) MONTHS from	imely filed ays will be considered timely. In the mailing date of this con FD (35 U.S.C. § 133).	nmunication.			
Status	Responsive to communication(s) filed	on 15 March 2001 .			'			
1)⊠	This action is FINA 1 2b) This action is n	on-final.	•				
2a)☐	THIS dollors to the sendition f	or allowance except	for formal matters.	prosecution as to the	e merits is			
3) Disposit	Since this application is in condition in closed in accordance with the practic tion of Claims	e under Ex parte Qu	ayle, 1935 C.D. 11,	, 453 O.G. 213.				
4)⊠	Claim(s) 1-43 is/are pending in the ap	oplication.						
7	4a) Of the above claim(s) is/are	withdrawn from con	sideration.					
5)[]								
6)区	Claim(s) <u>1-43</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restricti	ion and/or election re	equirement.					
Applica	tion Papers							
9)[The specification is objected to by the	Examiner.	ا مطلانیا بیان در این	Evaminer				
10)⊠	The drawing(s) filed on 3/15/01 is/are:	a) accepted or b) ≥	d objected to by the	Examiner.				
	Applicant may not request that any obje	ection to the drawing(s)	be neid in abeyance.	proved by the Examin	er.			
11)	The proposed drawing correction filed	onis: a) [a	aphto∧en n)[proved by the Examin				
ļ	If approved, corrected drawings are req	uired in reply to this Of	tice action.					
1	The oath or declaration is objected to	by the Examiner.	·					
Priority	y under 35 U.S.C. §§ 119 and 120			0(a) (d) or (f)				
	Acknowledgment is made of a claim	for foreign priority ur	nder 35 U.S.C. § 11	3(a)-(u) 01 (1).				
	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority	documents have bee	en received.	antion No				
	2. Certified copies of the priority	documents have bee	en received in Appli	cation No	l Stage			
	Copies of the certified copies application from the Intern See the attached detailed Office actio	iational Bureau (PU i	Rule 17.2(a)).		ii Glage			
441	Take the attached detailed office dollars	or domestic priority u	ınder 35 U.S.C. § 1	19(e) (to a provision	al application).			
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received.							
- 1	Acknowledgment is made of a claim	for domestic priority	under 35 U.S.C. §§	120 and/or 121.				
Attachr			4) Interview Sun	nmary (PTO-413) Paper N	lo(s)			
	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (I nformation Disclosure Statement(s) (PTO-1449)	PTO-948) Paper No(s) <u>1 & 2</u> .	5) Notice of Info	rmal Patent Application (F	PTO-152)			

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "(50)" at pg. 10, line 1 of the specification. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 27 and 34 are objected to because of the following informalities: inconsistent terminology with reference to AdobeRGB(50), where AdobeRGB(D50) is used elsewhere throughout the specification and claims. Appropriate correction is required.

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Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Jonathan Marsden et al., U.S. Patent 6,340,975 B2, January 2002.

As per independent claim 1, Marsden discloses a method comprising: obtaining a white point correction for a display device (col. 12, II. 12-18); obtaining a chromatic correction for the display device (col. 12, II. 10-18); and generating corrected color coordinates based on the white point and chromatic corrections (col. 12, II. 10-44; col. 5, II. 1-10).

As per dependent claim 2, Marsden discloses obtaining the white point correction by determining a white point correction matrix (col. 2, II. 40-61; col. 8 II. 10-20); and obtaining the chromatic correction by determining a chromatic correction matrix (col. 2, II. 40-61; col. 8, II. 5-15).

As per dependent claims 3 and 21, Marsden discloses displaying a color on a display device (Fig. 6), the color being defined by an original white point matrix in a -D50 illuminant condition (col. 7, II. 48-61); and adjusting at least some white point matrix values so that visual appearance on the display device is visually equivalent to a print (col. 12, II. 10-18).

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As per dependent claim 4, Marsden discloses adjusting at least some white point matrix values comprises adjusting maximum phosphor settings on a display (col. 8, II. 10-40; col. 12, II. 12-18).

As per dependent claims 5 and 22, Marsden discloses determining a chromatic correction matrix comprises: displaying a color on a display device (Fig. 6), the color being defined by an original chromatic matrix in a D50 illuminant condition (col. 7, II. 48-62); and adjusting at least some chromatic matrix values so that visual appearance on the display device is visually equivalent to a print (col. 8, II. 30-40).

As per dependent claim 6,26, 33 and 40, Marsden discloses adjusting at least some chromatic matrix values comprises adjusting chromaticity values in an RGB color space (col. 7, II. 48-61; col. 8, II. 30-40).

As per dependent claims 7, 27 and 34, Marsden discloses adjusting chromaticity values in an RGB color space comprises adjusting chromaticity values in an AdobeRGB(d50) color space (col. 7, II. 49-52; col. 8, II. 30-40).

As per dependent claim 8, Marsden discloses generating corrected color coordinates based on the white point and chromatic corrections comprises generating a single correction matrix (col. 2, II. 45-61; col. 8).

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As per independent claim 9, Marsden discloses a method comprising: determining device-independent coordinates defining a color on a hard copy (col. 6,ll. 40-50); and generating corrected coordinates using the device-independent coordinates, a white point correction and a chromatic correction (col. 5, ll. 1-10; col. 12, ll. 10-44).

As per dependent claims 10 and 17, Marsden discloses displaying the color using the corrected coordinates (col. 5, II. 1-10).

As per dependent claims 11, 18 and 42, Marsden discloses the displayed color is visually equivalent to the color on the hard copy (col. 12, II. 10-18; col. 13, II. 44-47).

As per dependent claims 12 and 19, Marsden discloses the white point correction is a white point correction matrix (col. 8, II. 10-20) and the chromatic correction is a chromatic correction matrix (col. 2, II. 45-61; col. 8, II. 30-40; col. 12, II. 10-18).

As per dependent claims 13 and 20, Marsden discloses determining the white point correction matrix (i.e. gamma function) (col. 8, II. 10-15) and the chromatic correction matrix (i.e. xyz values) (col. 8, II. 10-15).

As per independent claim 16, Marsden discloses a method comprising: converting device-dependent coordinates that define a color in a printing device to device-independent coordinates (col. 5-6, II. 67-5; Fig. 6); adjusting the

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device-independent coordinates using a white point correction and a chromatic correction (col. 5, II. 1-10; col. 11, II. 35-37, 57-65; col. 12, II. 10-44); and converting the corrected device-independent coordinates to device-dependent coordinates that define a color in a display device (col. 5-6, II. 67-5; col. 5, II. 1-10; col. 11, II. 35-37, 57-65; col. 12, II. 30-44; Fig. 6). It is inherent that Marsden's disclosure of the use of a profile that contains transformation data that includes converting from device dependent coordinates to device-independent coordinates and vice versa enables the printing device having device dependent coordinates to convert its coordinates to those of the device dependent display monitor using the intermediate adjustments of the white point and chromaticities to achieve soft proofing (col. 10, II. 39-46) in the disclosed system (Fig. 6), which illustrates a bi-directional feed of data between the printing and display devices and implements a lookup table (Fig. 6 "204a") storing the adjusted white point and chromaticity values.

As per independent claim 23, Marsden discloses a method comprising: adjusting maximum phosphor values for a display device so that a first color displayed on the display device matches white in a defined illuminant condition for a hard copy (col. 7, II. 49-52; col. 8, II. 30-40); and adjusting color settings so that a second color displayed on the display device matches a defined color in the defined illuminant condition (col. 7, II. 49-52; col. 12, II. 10-18).

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As per dependent claims 24, 32 and 39, Marsden discloses the defined illuminant condition is a D50 illuminant condition (col. 7, II. 48-52).

As per dependent claim 25, Marsden discloses adjusting color settings comprises adjusting color settings within a computer program (col. 10, II. 15-20; col. 12, II. 4-18).

As per independent claim 28, Marsden discloses a method comprising: creating a first visual representation of an image on a hard copy (col. 5, II. 60-65); and creating a second visual representation of the image on a display device (col. 10, II. 40-45), wherein the first visual representation and the second visual representation have different device-independent coordinates (col. 5, II. 61-64; col. 6, II. 41, 44-50), and wherein both white point and saturated colors on the display device are a good visual match to those of the hard copy (col. 12, II. 4-18, 46-50; col. 13, II. 44-47).

As per dependent claims 29 and 36, Marsden discloses both white point and saturated colors on the display are visually equivalent to those of the hard copy (col. 8, II. 30-40; col. 12, II. 10-18).

As per independent claim 30, Marsden discloses a system comprising: a display device (Fig. 6 "209"); a memory device (Fig. 6 "210"); and a processor coupled to the memory device and the display (Fig. 6 "205"), wherein the processor: obtains a white point correction for the display device from the memory device (col. 5, II. 1-3; col. 8, II. 30-35);

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obtains a chromatic correction for the display device from the memory device (col. 5, II. 1-3; col. 8, II. 30-35); and generates corrected color coordinates for the display device based on the white point and chromatic corrections (col. 12, II. 10-44).

As per independent claim 31, Marsden discloses a system comprising: a display device (Fig. 6 "209"); a memory device (Fig. 6 "210"); and a processor coupled to the display device and the memory device (Fig. 6 "205"), wherein the processor: adjusts the maximum phosphor values of the display device so that a first color displayed on the display device matches white in a defined illuminant condition for a hard copy (col. 7, II. 49-52; col. 8, II. 30-40); and adjusts color settings so that a second color displayed on the display device matches a defined color in the defined illuminant condition (col. 7, II. 49-52; col. 12, II. 10-18).

As per independent claim 35, Marsden discloses a system comprising: a display device (Fig. 6 "209"); a memory device (Fig. 6 "210"); and a processor coupled to the display device and the memory device (Fig. 6 "205"), wherein the processor: receives a first set of image data from the memory device defining a first visual representation of an image on a hard copy (col. 4-5, II. 67-4; col. 10, II. 38-44); creates a second set of image data defining a second visual representation of the image for display on the display device (col. 12, II. 10-44); and displays the image on the display (col. 10, II. 43-45); wherein the first set of image data and second set of image data have different device-independent coordinates (col. 11, II. 48-61; col. 12, II. 10-15, 37-42), and wherein both white point

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and saturated colors of the image on the display are a good visual match to those of the hard copy (col. 12, II. 4-18, 46-50; col. 13, II. 44-47).

As per independent claim 37, Marsden discloses a computer readable medium carrying program code that when executed: receives a white point correction for a display device as input (col. 8, II. 30-35); receives a chromatic correction for the display device as input (col. 8, II. 30-35); and generates corrected color coordinates for the display device based on the white point and chromatic corrections (col. 12, II. 10-44).

As per independent claim 38, Marsden discloses a computer readable medium carrying program code that when executed: adjusts maximum phosphor values of a display device so that a first color displayed on the display device matches white in a defined illuminant condition for a hard copy (col. 7, II. 49-52; col. 8, II. 30-40); and adjusts color settings so that a second color displayed on the display device matches a defined color in the defined illuminant condition (col. 7, II. 49-52; col. 12, II. 10-18).

As per independent claim 41, Marsden discloses a computer readable medium carrying program code that when executed: receives a first set of image data from the memory device defining a first visual representation of an image on a hard copy (col. 10, II. 38-42); creates a second set of image data defining a second visual representation of the image for display on the display device (col. 12, II. 10-44); and displays the image on the display (col. 10, II. 43-45); wherein the first set of image data (col. 11, II. 48-61) and

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second set of image data (col. 12, II. 10-15) have different device-independent coordinates (col. 11, II. 56-61; col. 12, II. 37-42), and wherein both white point and saturated colors of the image on the display are a good visual match to those of the hard copy (col. 12, II. 4-18, 46-50; col. 13 II. 44-47).

As per independent claim 43, Marsden discloses a computer readable medium carrying a color profile data structure thereon, the color profile data structure corresponding to a first device (col. 5, II. 65-67) and including illuminant condition values that do not correspond to actual illuminant conditions associated with the first device (col. 7, II. 15-18), wherein an image rendered on a second device using the color profile data structure is visually equivalent to the image rendered on the first device (col. 5, II. 61-64; col. 7, II. 39-42).

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Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marsden as applied to claim 9 above, and further in view of Patrick Cottone, U.S. Patent 6,522,313 B1, February 2003.

As per dependent claim 14, Marsden discloses displaying a color on a display device (Fig. 6), the color being defined by an original white point matrix in a D50 illuminant condition (col. 7, II. 49-52; col. 8, II. 10-20); and adjusting at least some white point matrix values so that visual appearance on the display device is visually equivalent to a white printout (col. 12, II. 10-18). Marsden fails to specifically disclose the printout viewed in the D50 illuminant condition, which Cottone discloses (col. 4, II. 17-29). It would have been obvious to one of skill in the art to include Cottone's teaching of viewing a printout in the D50 illuminant condition with Marsden's disclosure of applying an illuminant to a display monitor and manipulating color data under the known illuminant for the benefit of creating an environment where the printout and the display data are viewed under the same conditions so as to produce colors that closely resemble the intended colors (col. 7, II. 49-55; col. 13, II. 43-46).

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As per dependent claim 15, Marsden discloses displaying a color on a display device (Fig. 6), the color being defined by an original chromatic matrix in a D50 illuminant condition (col. 7, II. 49-61); and adjusting at least some chromatic matrix values (col. 7-8, II. 61-15) so that visual appearance on the display device is visually equivalent to a color printout (col. 8, II. 30-40). Marsden fails to specifically disclose the printout viewed in the D50 illuminant condition, which Cottone discloses (col. 4, II. 17-29). It would have been obvious to one of skill in the art to include Cottone's teaching of viewing a printout in the D50 illuminant condition with Marsden's disclosure of applying an illuminant to a display monitor and manipulating color data under the known illuminant for the benefit of creating an environment where the printout and the display data are viewed under the same conditions so as to produce colors that closely resemble the intended colors (col. 7, II. 49-55; col. 13, II. 43-46).

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Conclusion

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Chante Harrison whose telephone number is (703) 305-3937.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

April 3, 2003